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FILE 'SCISEARCH' ENTERED AT 13:15:49 ON 31 JAN 2000 COPYRIGHT (C) 2000 Institute for Scientific Information (ISI) (R) L1 654 PHTHALOCYANIN? (P) (WATER SOLU?)

=> d hit

L1 ANSWER 1 OF 654 CAPLUS COPYRIGHT 2000 ACS

AB The water sol. anionic dye, cobalt

phthalocyanine disulfonate (PcCoDS), was used to prep.

.pi.-electron terminated model monolayers with a high surface free energy.

We report the en face self-assembly of monomeric PcCoDS monolayers on dioctadecydiammonium bromide (DODAB). Direct surface force measurements showed that the **phthalocyanine** overlayers increased the adhesion between the surfactant membranes in water nearly 100-fold. This increased

attraction correlated with the dye-induced aggregation of DODAB vesicles. Simultaneous force and electronic absorbance measurements indicate that the formation of strong adhesive contacts between the dye layers corresponds with **phthalocyanine** dimerization. Further, the adhesion increased in proportion to the dye coverage, and, at the max.

dye

coverage, it is at least as strong as hydrophobic interactions that stabilize the membranes. The surface free energy of PcCoDS/DODA membranes, detd. from JKR anal. of the contact area vs applied load, is 5.2 .+-. 0.4 mN m-1. Anal. of the intersurface attraction using schitz

theory for multilayered systems suggests that the dispersion force contributes substantially to the dye interactions. Such forces acting between assemblies of other arom. compds. in water may similarly contribute to the stability of molecularly engineered materials.

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LAST RELOADED: Jan 28, 2000 (20000128/UP).

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CA SUBSCRIBER PRICE	ENTRY 0.00	SESSION -0.56

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=> s l1 (p) assay

L2 9 L1 (P) ASSAY

=> d ibib hit 1-

YOU HAVE REQUESTED DATA FROM 9 ANSWERS - CONTINUE? Y/(N):y

L2 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2000 ACS ACCESSION NUMBER: 1998:684455 CAPLUS

DOCUMENT NUMBER:

129:317583

TITLE:

Hybrid phthalocyanine derivatives and their uses in

immunoassays and nucleic acid assays

INVENTOR(S):
PATENT ASSIGNEE(S):

Buechler, Kenneth F.; Noar, Joseph B.; Tadesse, Lema

Biosite Diagnostics Incorporated, USA

SOURCE:

U.S., 57 pp. Cont.-in-part of U.S. Ser. No. 274,534.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5824799 US 5763189 PRIORITY APPLN. INFO.	A A :	19981020 19980609	US 1996-620597 US 1994-311098 US 1993-126367 US 1993-138708 US 1994-274534 US 1994-311098 US 1995-409825	19960322 19940923 19930924 19931018 19940712 19940923

AB Water sol. hybrid phthalocyanine derivs.

having (1) at least one donor subunit with a desired excitation peak and (2) at least one acceptor subunit with a desired emission peak, wherein the derivs. are capable of intramol. energy transfer from the donor subunit to the acceptor subunit, are synthesized. Such derivs. also may contain an electron transfer subunit. Axial ligands may be covalently bound to the metals contained in the water sol. hybrid phthalocyanine derivs. Ligands, ligand analogs, polypeptides, proteins, and nucleic acids can be linked to the axial ligands of the

to form dye conjugates useful in immunoassays and nucleic acid assays.

L2 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2000 ACS ACCESSION NUMBER: 1998:95371 CAPLUS

DOCUMENT NUMBER:

128:202442

TITLE:

dyes

Photosensitization of cells with different metastatic potentials by liposome-delivered

Zn(II)-phthalocyanine

AUTHOR(S):

Valduga, Giuliana; Reddi, Elena; Garbisa, Spiridione;

Jori, Giulio

CORPORATE SOURCE:

Department of Biology, University of Padua (Padova),

Padua, 35131, Italy

SOURCE:

Int. J. Cancer (1998), 75(3), 412-417

CODEN: IJCNAW; ISSN: 0020-7136

PUBLISHER: Wiley-Liss, Inc. " DOCUMENT TYPE: Journal LANGUAGE: English

The phototoxicity of liposome-incorporated Zn(II)-phthalocyanine (ZnPc) and its water-sol. tetrasulfonated deriv. (ZnPcTS) was studied in the tumorigenic but nonmetastatic (RE4) and the highly metastatic (4R) transformed rat embryo fibroblasts. Upon irradn. with 585-605 nm light in the presence of ZnPc, the cell survival drastically decreased, while it was unaffected by ZnPcTS. Enzymic assays showed that ZnPc induced about a 60% decrease in the activity of the mitochondrial enzymes NADH and succinate dehydrogenase after 3 min of irradn., while no significant redn. in the activity of lactate dehydrogenase and lysosomal N-acetyl-.beta.-glucosaminidase was obsd. The transport of thymidine, deoxyglucose and .alpha.aminoisobutyric acid through the plasma membrane was strongly inhibited after irradn. Similarly, the intracellular ATP content was significantly reduced. The redn. of DNA biosynthesis showed a time dependence quite similar to the photo-induced decrease in cell survival. No repair of cellular functions affected by ZnPc was obsd. in the 2 cell lines. These results indicate that, under our exptl. conditions, hydrophobic ZnPc exerts its cytotoxic activity mainly by impairing those functions localized in the plasma membrane of the cells.

ANSWER 3 OF 9 CAPLUS COPYRIGHT 2000 ACS ACCESSION NUMBER: 1996:761698 CAPLUS

DOCUMENT NUMBER: 126:33023

TITLE:

Hybrid phthalocyanine derivatives and their uses INVENTOR(S):

Buechler, Kenneth F.; Noar, Joseph B.; Tadesse, Lema

PATENT ASSIGNEE(S): Biosite Diagnostics Incorporated, USA SOURCE:

PCT Int. Appl., 190 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATEN	T NO.		KI	ND 	DATE			A	PPLI	CATI	ON N	0.	DATE			
WO 96	29367				1996	0926		W	 0 19	96-U	 S383	3	1996	0322		
W	: AL,	AM,	AT,	ΑU,	ΑZ,	BB,	BG,	BR,	BY,	CA,	CH,	CN.	CZ.	DE.	DK.	EE,
	LU.	FI, LV,	MD.	MG.	HU,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LK,	LR,	LS,	LT,
	SG,	SI	,	110,	1111,	rin,	1.144 ,	riA,	NO,	114,	PL,	PI,	KO,	RU,	SD,	SE,
R	W: KE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,	GR,
	IE,	IT,	LU,	MC,	ΝL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA.	GN,	ML
CA 22			A.F	Ą	19960	0926		C	A 19:	96-22	21572	27	19960	0322		
AU 96	53188		A)	L	1996:	1008		Α	J 199	96-53	3188		19960	0322		
	0489				19980	0128		ΕI	P 199	96-90	0980	5	19960	0322		
R	: AT,	CH,	DE,	ES,	FR,	GB,	ΙΤ,	LI,	NL							
	508897			2	19980	0902		JI	2 199	96~52	28604	1	19960	322		
PRIORITY A	PPLN.	INFO.	:					US	5 199	95-40	9825	5	19950	323		
7.D								WC	199	96-US	3833	3	19960	322		

Water-sol. hybrid phthalocyanine derivs., AB fluorescent latex particles incorporating which are useful in competitive and noncompetitive immunoassays and nucleic acid assays, have (1) .gtoreq.1 donor subunit with a desired excitation peak and (2) .gtoreq.1 acceptor subunit with a desired emission peak, and are capable of intramol. energy transfer from the donor subunit to the acceptor subunit. They may also contain an electron-transfer subunit. Axial ligands may be covalently bound to the metals contained in the water-sol. hybrid phthalocyanine derivs. Ligands, ligand analogs, polypeptides, proteins, and nucleic acids can be linked to the axial ligands of the dyes to form conjugates useful in immunoassays and nucleic acid assays.

ACCESSION NUMBER: DOCUMENT NUMBER:

1996:228986 CAPLUS 124:337353

".TITLE:

INVENTOR(S):

Monomeric phthalocyanine reagents

Schindele, Deborah C.; Pepich, Barry V.; Renzoni, George E.; Fearon, Karen L.; Andersen, Niels H.;

Stanton, Thomas H.

PATENT ASSIGNEE(S):

SOURCE:

British Technology Group Usa Inc., USA

U.S., 31 pp. Cont.-in-part of U.S. Ser. No. 241,608.

CODEN: USXXAM

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5494793 US 4803170 US 5135717 US 5346670 PRIORITY APPLN. IN	A A A A FO.:	19960227 19890207 19920804 19940913	US 1989-366971 US 1986-946475 US 1989-398433 US 1992-895601 US 1986-941619 US 1986-946475 US 1987-61937 US 1988-241608 US 1989-309453 US 1985-732445 US 1987-3226 US 1989-366971 US 1989-398433	19890614 19861224 19890829 19920608 19861215 19861224 19870612 19880908 19890210 19850509 19871112 19890614

OTHER SOURCE(S): MARPAT 124:337353

Fluorescent and/or chromogenic reagents are disclosed in which a phthalocyanine deriv. is monomerically conjugated with an antigen, antibody, oligonucleotide, or nucleic acid. Methods are presented in which >90% of the phthalocyanine dyes are monomeric when conjugated. This greatly enhances their performance as detectable

in immunoassays, nucleic acid probe assays, immunoblotting, hybridization assays, microscopy, imaging, flow cytometry, DNA sequencing, and photodynamic therapy. For use as fluorophores, the free base phthalocyanine may or may not be metalated. Metals for fluorescent phthalocyanine include aluminum, silicon, phosphorus, gallium, germanium, cadmium, scandium, magnesium, tin, and zinc. For use as chromogens, the phthalocyanine may or may not be metalated. For use in aq. soln., the phthalocyanine macrocycle should be derivatized with water-solubilizing substituents such as sulfonic acid, phosphate, phosphonate, hydroxy, phenoxy, amino, ammonium, or pyridinium groups. To promote disaggregation, metalation with an atom of .++. valence or higher is recommended so that the monomer will take on an axial ligand in aq. soln. For use in enzymic immunoassays and enzymically enhanced nucleic acid probe assays, the monomeric phthalocyanine deriv. is conjugated via an enzyme-cleavable linkage with the antigen, antibody, oligonucleotide, or nucleic acid. Reversibly quenched embodiments are also provided in which a cleavable linkage joins a fluorescent phthalocyanine monomer with another phthalocyanine, a heavy metal, or a paramagnetic species.

ANSWER 5 OF 9 CAPLUS COPYRIGHT 2000 ACS ACCESSION NUMBER: 1987:530020 CAPLUS

DOCUMENT NUMBER:

107:130020

TITLE:

Photosensitizing activity of phthalocyanine dyes

screened against tissue culture cells AUTHOR(S):

Chan, W. S.; Marshall, J. F.; Svensen, R.; Phillips,

D.; Hart, I. R.

CORPORATE SOURCE:

Imp. Cancer Res. Fund Lab., London, WC2A 3PX, UK

SOURCE:

Photochem. Photobiol. (1987), 45(6), 757-61

CODEN: PHCBAP; ISSN: 0031-8655

DOCUMENT TYPE: LANGUAGE:

Journal English

AB A series of phthalocyanine (Pc) dyes were screened for their ability to photosensitize murine embryonic fibroblasts or fibrosarcoma cells. Cells were cultured in the presence of the dyes for 24 h, following which they were irradiated with either room light or red light and cultured for a further 72-h period. Eleven water-insol. Pc (including

a free-base Pc) and 6 water-sol. sulfonated derivs. were screened in this fashion. Free base (H2) Cu, Cu di-, tri-, tetrasulfonated (CuS2, CuS3, CuS), fluorochronium (FCr) Fe, Co, tetrasulfonated PdS4, Ni and tetrasulfonated NiS4 Pc dyes had no cytotoxic

activity in these **assays** under conditions of either room-light or red-light exposure. Mg, Zn and Zr Pc dyes were highly toxic to cells, producing 0% survival at 72 h following exposure to both light sources. In contrast, chloroaluminum (ClAl), chloroaluminum sulfonated (ClAlS),

and

dichlorotin (Cl2,sn) Pc dyes exhibited differential phototoxicity, producing total cell death following red-light irradn. but no or little cytotoxic effect after exposure to room light, raising the possibility that these dyes might prove useful for photodynamic therapy of cancer.

L2 ANSWER 6 OF 9 MEDLINE

ACCESSION NUMBER: 1998115338 MEDLINE

DOCUMENT NUMBER: 98115338

TITLE:

Photosensitization of cells with different metastatic potentials by liposome-delivered Zn(II)-phthalocyanine.

AUTHOR: Valduga G; Reddi E; Garbisa S; Jori G

CORPORATE SOURCE:

Department of Biology, University of Padua (Padova),

Italy.. valduga@civ.bio.unipd.it

SOURCE:

INTERNATIONAL JOURNAL OF CANCER, (1998 Jan 30) 75 (3)

412-7.

Journal code: GQU. ISSN: 0020-7136.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT: Pr

Priority Journals; Cancer Journals

ENTRY MONTH: 199804 ENTRY WEEK: 19980404

AB The phototoxicity of liposome-incorporated Zn(II)-phthalocyanine (ZnPc) and its water-soluble tetrasulphonated

derivative (ZnPcTS) was studied in the tumorigenic but nonmetastatic (RE4)

and the highly metastatic (4R) transformed rat embryo fibroblasts. Upon irradiation with 585-605 nm light in the presence of ZnPc, the cell survival drastically decreased, while it was unaffected by ZnPcTS. Enzymatic assays showed that ZnPc induced about a 60% decrease in the activity of the mitochondrial enzymes NADH and succinate dehydrogenase after 3 min of irradiation, while no significant reduction in the activity of lactate dehydrogenase and lysosomal N-acetyl-beta-glucosaminidase was observed. The transport of thymidine, deoxyglucose and alpha-aminoisobutyric acid through the plasma membrane was strongly inhibited after irradiation. Similarly, the intracellular

ATP

content was significantly reduced. The reduction of DNA biosynthesis showed a time dependence quite similar to the photo-induced decrease in cell survival. No repair of cellular functions affected by ZnPc was observed in the 2 cell lines. These results indicate that, under our experimental conditions, hydrophobic ZnPc exerts its cytotoxic activity mainly by impairing those functions localized in the plasma membrane of the cells.

L2 ANSWER 7 OF 9 BIOSIS COPYRIGHT 2000 BIOSIS ACCESSION NUMBER: 1998:123945 BIOSIS

DOCUMENT NUMBER: PREV199800123945

Photosensitization of cells with different metastatic TITLE:

potentials by liposome-delivered Zn(II)-phthalocyanine. Valduga, Giuliana (1); Reddi, Elena; Garbisa, Spiridione;

Jori, Giulio

(1) Dip. Biol., Univ. Padova, Via Ugo Bassi, 58/B, 35131 CORPORATE SOURCE:

Padova Italy

SOURCE: International Journal of Cancer, (Jan. 30, 1998) Vol. 75,

No. 3, pp. 412-417.

ISSN: 0020-7136.

DOCUMENT TYPE: Article LANGUAGE: English

The phototoxicity of liposome-incorporated Zn(II)-phthalocyanine (ZnPc) and its water-soluble tetrasulphonated

derivative (ZnPcTS) was studied in the tumorigenic but nonmetastatic

(RE4)

AUTHOR(S):

and the highly metastatic (4R) transformed rat embryo fibroblasts. Upon irradiation with 585-605 nm light in the presence of ZnPc, the cell survival drastically decreased, while it was unaffected by ZnPcTS. Enzymatic assays showed that ZnPc induced about a 60% decrease in the activity of the mitochondrial enzymes NADH and succinate dehydrogenase after 3 min of irradiation, while no significant reduction in the activity of lactate dehydrogenase and lysosomal N-acetyl-beta-glucosaminidase was observed. The transport of thymidine, deoxyglucose and alpha-aminoisobutyric acid through the plasma membrane was strongly inhibited after irradiation. Similarly, the intracellular

ATP

content was significantly reduced. The reduction of DNA biosynthesis showed a time dependence quite similar to the photo-induced decrease in cell survival. No repair of cellular functions affected by ZnPc was observed in the 2 cell lines. These results indicate that, under our experimental conditions, hydrophobic ZnPc exerts its cytotoxic activity mainly by impairing those functions localized in the plasma membrane of the cells.

ANSWER 8 OF 9 BIOSIS COPYRIGHT 2000 BIOSIS L_2

ACCESSION NUMBER: 1987:382067 BIOSIS

DOCUMENT NUMBER: BA84:68564

TITLE:

PHOTOSENSITIZING ACTIVITY OF PHTHALOCYANINE DYES SCREENED

AGAINST TISSUE CULTURE CELLS.

AUTHOR(S): CHAN W-S; MARSHALL J F; SVENSEN R; PHILLIPS D; HART I R CORPORATE SOURCE: IMPERIAL CANCER RES. FUND LAB., P.O. BOX 123, LINCOLN'S

INN

а

FIELDS, LONDON WC2A 3PX, UK.

SOURCE: PHOTOCHEM PHOTOBIOL, (1987) 45 (6), 757-762. CODEN: PHCBAP. ISSN: 0031-8655.

FILE SEGMENT:

BA; OLD

English

A series of phthalocyanine (Pc) dyes were screened for their ability to photosensitise murine embryonic fibroblasts or fibrosarcoma cells. Cells were cultured in the presence of the dyes for 24 h,

which they were irradiated with either room light or red light and cultured for a further 72-h period. Eleven water-insoluble Pc (including

free-base Pc) and 6 water-soluble sulfonated derivatives were screened in this fashion. Free base (H2), copper (Cu), copper di-, tri, tetra-sulfonated (CuS2, CuS3, CuS4), fluoro chromium (FCr), iron (Fe), cobalt (Co), palladium tetra-sulfonated (PdS4), nickel (Ni) and nickel tetra-sulfonated (NiS4)Pc dyes had no cytotoxic activity in these assays under conditions of either room-light or red-light exposure. Magnesium (Mg), zinc (Zn) and zirconium (Zr) Pc dyes were highly toxic to cells, producing 0% survival at 72 h, following exposure to both light sources. In contrast, chloroaluminum (ClAl), chloro

aluminum sulfonated (ClAlS) and dichloro tin (Cl2Sn) Pc dyes exhibited

differential phototoxicity, producing total cell death following red-light

irradiation but no or little cytotoxic effect after exposure to room light, raising the possibility that these dyes might prove useful for photodynamic therapy of cancer.

L2 ANSWER 9 OF 9 SCISEARCH COPYRIGHT 2000 ISI (R)

ACCESSION NUMBER: 1998:113870 SCISEARCH

THE GENUINE ARTICLE: YU408

TITLE: Photosensitization of cells with different metastatic

potentials by liposome-delivered Zn(II)-phthalocyanine

AUTHOR: Valduga G (Reprint); Reddi E; Garbisa S; Jori G

CORPORATE SOURCE: UNIV PADUA, DIPARTIMENTO BIOL, VIA UGO BASSI, 58-B,

I-35131 PADUA, ITALY (Reprint); UNIV PADUA, IST ISTOL &

EMBRIOL, I-35131 PADUA, ITALY

COUNTRY OF AUTHOR: ITALY

SOURCE: INTERNATIONAL JOURNAL OF CANCER, (30 JAN 1998) Vol. 75,

No. 3, pp. 412-417.

Publisher: WILEY-LISS, DIV JOHN WILEY & SONS INC, 605

THIRD AVE, NEW YORK, NY 10158-0012.

ISSN: 0020-7136.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE LANGUAGE: English

REFERENCE COUNT: 27

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB The phototoxicity of liposome-incorporated Zn(II)-

phthalocyanine (ZnPc) and its water-soluble tetrasulphonated derivative (ZnPcTS) was studied in the tumorigenic but nonmetastatic (RE4) and the highly metastatic (4R) transformed rat embryo fibroblasts. Upon irradiation with 585-605 nm light in the presence of ZnPc, the cell survival drastically decreased, while it was unaffected by ZnPcTS, Enzymatic assays showed that ZnPc induced about a 60% decrease in the activity of the mitochondrial enzymes NADH and succinate dehydrogenase after 3 min of irradiation, while no significant reduction in the activity of lactate dehydrogenase and lysosomal N-acetyl-beta-glucosaminidase was observed, The transport of thymidine, deoxyglucose and alpha-aminoisobutyric acid through the plasma membrane was strongly inhibited after irradiation, Similarly, the intracellular

ATP -

content was significantly reduced. The reduction of DNA biosynthesis showed a time dependence quite similar to the photo-induced decrease in cell survival. No repair of cellular functions affected by ZnPc was observed in the 2 cell lines, These results indicate that, under our experimental conditions, hydrophobic ZnPc exerts its cytotoxic activity mainly by impairing those functions localized in the plasma membrane of the cells. (C) 1998 Wiley-Liss, Inc.

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jan 28, 2000 (20000128/UP).

=> file caplu, medlin, biosis, scisear

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FILE 'SCISEARCH' ENTERED AT 13:22:54 ON 31 JAN 2000 COPYRIGHT (C) 2000 Institute for Scientific Information (ISI) (R)

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(FILE 'HOME' ENTERED AT 13:15:25 ON 31 JAN 2000)

FILE 'CAPLUS, MEDLINE, BIOSIS, SCISEARCH' ENTERED AT 13:15:49 ON 31 JAN 2000

L1 654 S PHTHALOCYANIN? (P) (WATER SOLU?)

FILE 'STNGUIDE' ENTERED AT 13:17:45 ON 31 JAN 2000

FILE 'CAPLUS, MEDLINE, BIOSIS, SCISEARCH' ENTERED AT 13:20:19 ON 31 JAN 2000

L2 9 S L1 (P) ASSAY

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=> s l1 (2p) compet?

L3 9 L1 (2P) COMPET?

=> d hit

L3 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2000 ACS

AB Cobaltous tetraphenylporphyrin (Co(II)TPP) and cobaltous phthalocyanine (Co(II)Pc) complexes were studied in a variety of solvents, including water. The imidazole and nitrosyl adducts were synthesized and characterized by UV-Vis spectrophotometry and ESR spectroscopy. The imidazole adducts were subsequently exposed to nitric oxide to study the competitive interactions between nitrosyl and imidazole ligands in these cobaltous compds. This is important, since it has been suggested that aq. solns. of cobaltous porphyrins and phthalocyanines can serve as denitrification agents when bound to an immobilized imidazole-modified silica gel (IMSG) substrate. Our results indicate that while nitric oxide binds both Co(II)TPP and Co(II)Pc

in org. solvents in the absence of a bound imidazole ligand, it will not bind when imidazole is axially bound to the cobalt ion. Neither Co(II)TPP

nor Co(II)Pc are water sol. and both will dimerize in water. A water sol. NO sorbent which does not dimerize in water would be ideal for removing NO from flue gas streams. The Co(II)PcTs(IMSG) appears to meet these requirements. Preliminary results indicate that ag. suspensions of Co(II)PcTs(IMSG) are capable of NO removal from a gas stream passed through these suspensions and may thus

be suitable candidates for further development as NO sorbents for NOx abatement.

=> dup rem 13

PROCESSING COMPLETED FOR L3

6 DUP REM L3 (3 DUPLICATES REMOVED)

=> d ibib hit 1-

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ANSWER 1 OF 6 CAPLUS COPYRIGHT 2000 ACS DUPLICATE 1

ACCESSION NUMBER: 1998:357227 CAPLUS

CORPORATE SOURCE:

DOCUMENT NUMBER: TITLE:

129:139994

Adducts of nitric oxide with cobaltous

tetraphenylporphyrin and phthalocyanines: potential

nitric oxide sorbents

AUTHOR(S):

Owens, John Wesley; Perry, Mildred; Seybert, David W.

Department of Chemistry, Southern University, Baton

Rouge, LA, 70813, USA

SOURCE:

thus

Inorg. Chim. Acta (1998), 277(1), 1-7

CODEN: ICHAA3; ISSN: 0020-1693

PUBLISHER:

Elsevier Science S.A.

DOCUMENT TYPE:

Journal English LANGUAGE:

Cobaltous tetraphenylporphyrin (Co(II)TPP) and cobaltous phthalocyanine (Co(II)Pc) complexes were studied in a variety of solvents, including water. The imidazole and nitrosyl adducts were synthesized and characterized by UV-Vis spectrophotometry and ESR spectroscopy. The imidazole adducts were subsequently exposed to nitric oxide to study the competitive interactions between nitrosyl and imidazole ligands in these cobaltous compds. This is important, since it has been suggested that aq. solns. of cobaltous porphyrins and phthalocyanines can serve as denitrification agents when bound to an immobilized imidazole-modified silica gel (IMSG) substrate. Our results indicate that while nitric oxide binds both Co(II) TPP and Co(II)Pc

in org. solvents in the absence of a bound imidazole ligand, it will not bind when imidazole is axially bound to the cobalt ion. Neither Co(II) TPP

nor Co(II)Pc are water sol. and both will dimerize in water. A water sol. NO sorbent which does not dimerize in water would be ideal for removing NO from flue gas streams. The Co(II)PcTs(IMSG) appears to meet these requirements. Preliminary results indicate that aq. suspensions of Co(II)PcTs(IMSG) are capable of NO removal from a gas stream passed through these suspensions and may

be suitable candidates for further development as NO sorbents for NOx abatement.

ANSWER 2 OF 6 CAPLUS COPYRIGHT 2000 ACS ACCESSION NUMBER: 1996:761698 CAPLUS

DOCUMENT NUMBER: 126:33023

Hybrid phthalocyanine derivatives and their uses TITLE: Buechler, Kenneth F.; Noar, Joseph B.; Tadesse, Lema INVENTOR(S):

PATENT ASSIGNEE(S): Biosite Diagnostics Incorporated, USA

SOURCE: PCT Int. Appl., 190 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE WO 9629367 A1 19960926 WO 1996-US3833 19960322 W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML CA 2215727 AA 19960926 CA 1996-2215727 19960322 AU 9653188 Α1 19961008 AU 1996-53188 19960322 EP 820489 A1 19980128 EP 1996-909805 19960322 R: AT, CH, DE, ES, FR, GB, IT, LI, NL JP 10508897 T2 19980902 JP 1996-528604 19960322 PRIORITY APPLN. INFO.: US 1995-409825 19950323 WO 1996-US3833 19960322

AB Water-sol. hybrid phthalocyanine derivs., fluorescent latex particles incorporating which are useful in competitive and noncompetitive immunoassays and nucleic acid assays, have (1) .gtoreq.1 donor subunit with a desired excitation peak and (2) .gtoreq.1 acceptor subunit with a desired emission peak, and are capable of intramol. energy transfer from the donor subunit to the acceptor subunit. They may also contain an electron-transfer subunit. Axial ligands may be covalently bound to the metals contained in the water-sol. hybrid phthalocyanine derivs.

Ligands, ligand analogs, polypeptides, proteins, and nucleic acids can be linked to the axial ligands of the dyes to form conjugates useful in immunoassays and nucleic acid assays.

L4 ANSWER 3 OF 6 MEDLINE DUPLICATE 2

ACCESSION NUMBER: 93376833 MEDLINE

DOCUMENT NUMBER: 93376833

TITLE: Inhibition of phthalocyanine-sensitized photohemolysis of

human erythrocytes by quercetin. Ben-Hur E; Rosenthal I; Granot Y

AUTHOR: Ben-Hur E; Rosenthal I; Granot Y CORPORATE SOURCE: New York Blood Center, NY 10021..

SOURCE: PHOTOCHEMISTRY AND PHOTOBIOLOGY, (1993 Jun) 57 (6) 984-8.

Journal code: P69. ISSN: 0031-8655.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English ENTRY MONTH: 199312

Photohemolysis of erythrocytes in the presence of aluminum phthalocyanine tetrasulfonate as a sensitizer is inhibited by quercetin. D2O (98.5%) stimulated photohemolysis regardless of quercetin presence, suggesting the participation of singlet oxygen in the process. Since it has been shown that this flavonoid reacts with singlet oxygen, the protective effect might be attributed, at least partially, to its competitive reaction with singlet oxygen. At the molecular level, the alterations of membrane proteins that escort the process of photohemolysis, such as cross-linking of spectrin monomers and of other membrane proteins, were selectively inhibited by quercetin. This effect was qualitatively similar to that induced by NaF, suggesting that quercetin may, like NaF, also inhibit type I photooxidations, which contribute to hemolysis. The lipophilicity of quercetin seems to be an essential factor in the inhibition process; rutin, a water-soluble 3-rutinoside of quercetin, had only a negligible protective effect on photohemolysis.

ANSWER 4 OF 6 CAPLUS COPYRIGHT 2000 ACS ACCESSION NUMBER:

DOCUMENT NUMBER:

1993:620628 CAPLUS

119:220628

TITLE:

Inhibition of phthalocyanine-sensitized

photohemolysis

of human erythrocytes by quercetin

AUTHOR(S):

Ben-Hur, E.; Rosenthal, I.; Granot, Y.

CORPORATE SOURCE:

New York Blood Cent., New York, NY, 10021, USA

SOURCE:

Photochem. Photobiol. (1993), 57(6), 784-8

CODEN: PHCBAP; ISSN: 0031-8655

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Photohemolysis of erythrocytes in the presence of aluminum phthalocyanine tetrasulfonate as a sensitizer is inhibited by quercetin (I). D2O (98.5%) stimulated photohemolysis regardless of I presence, suggesting the participation of singlet oxygen in the process. Since it has been shown that this flavonoid reacts with singlet oxygen, the protective effect might be attributed, at least partially, to its competitive reaction with singlet oxygen. At the mol. level, the alterations of membrane proteins that escort the process of photohemolysis, such as crosslinking of spectrin monomers and of other membrane proteins, were selectively inhibited by I. This effect was

similar to that induced by NaF, suggesting that I may, like NaF, also inhibit type I photooxidns., which contribute to hemolysis. The lipophilicity of I seems to be an essential factor in the inhibition process; rutin, a water-sol. 3-rutinoside of I, had only a negligible protective effect on photohemolysis.

ANSWER 5 OF 6 CAPLUS COPYRIGHT 2000 ACS 1990:627898 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

113:227898

TITLE:

Photosensitizing activity of water- and lipid-soluble

phthalocyanines on Escherichia coli

AUTHOR(S):

Bertoloni, Giulio; Rossi, Francesca; Valduga,

CORPORATE SOURCE: SOURCE:

Giuliana; Jori, Giulio; Van Lier, Johan Inst. Microbiol., Univ. Padova, Padua, 35100, Italy

FEMS Microbiol. Lett. (1990), 71(1-2), 149-55

CODEN: FMLED7; ISSN: 0378-1097

DOCUMENT TYPE:

Journal

LANGUAGE:

English

E. coli, like most Gram-neq. bacteria, is insensitive to the photosensitizing action of both lipid-sol. Zinc-phthalocyanine (Zn-Pc) and water-sol. Zinc-mono/disulfonated

phthalocyanine (Zn-PcS). Photosensitivity can be induced by alteration of the outer membrane, as obtained by either induction of competence or treatment with Tris-EDTA. Both

phthalocyanines largely bind at the level of the cytoplasmic membrane; however, Zn-PcS shows a superior photosensitizing activity than Zn-Pc. Biochem. analyses performed on irradiated cells suggest that the cytoplasmic membrane is an important target of the photoprocess, while

DNA

is not involved.

ANSWER 6 OF 6 MEDLINE

ACCESSION NUMBER: 91115055 MEDLINE

91115055 DOCUMENT NUMBER:

TITLE:

Photosensitizing activity of water- and lipid-soluble

phthalocyanines on Escherichia coli.

AUTHOR:

Bertoloni G; Rossi F; Valduga G; Jori G; van Lier J

CORPORATE SOURCE: SOURCE:

Institute of Microbiology, University of Padova, Italy. FEMS MICROBIOLOGY LETTERS, (1990 Sep 1) 59 (1-2) 149-55.

Journal code: FML. ISSN: 0378-1097.

PUB. COUNTRY:

Netherlands

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

· • ENTRY MONTH:

199105

Escherichia coli, as most Gram-negative bacteria, is insensitive to the photosensitizing action of both lipid-soluble Zinc-phthalocyanine (Zn-Pc) and water-soluble Zinc-mono/disulfonated phthalocyanine (Zn-PcS). Photosensitivity can be induced by alteration of the outer membrane, as obtained by either induction of competence or treatment with Tris-EDTA. Both phthalocyanines largely bind at the level of the cytoplasmic membrane; however, Zn-PcS shows a superior photosensitizing activity as compared with Zn-Pc. Biochemical analyses performed on irradiated cells suggest that the cytoplasmic membrane is an important target of the photoprocess, while DNA is not involved.

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SESSION WILL BE HELD FOR 60 MINUTES

ANSWER 1 OF 9 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1998:684455 CAPLUS

DOCUMENT NUMBER: 129:317583

TITLE: Hybrid phthalocyanine derivatives and their uses in

immunoassays and nucleic acid assays

INVENTOR(S): Buechler, Kenneth F.; Noar, Joseph B.; Tadesse, Lema

PATENT ASSIGNEE(S): Biosite Diagnostics Incorporated, USA

SOURCE: U.S., 57 pp. Cont.-in-part of U.S. Ser. No. 274,534.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5824799 US 5763189 PRIORITY APPLN. INFO.	A A :	19981020 19980609	US 1996-620597 US 1994-311098 US 1993-126367 US 1993-138708 US 1994-274534 US 1994-311098 US 1995-409825	19960322 19940923 19930924 19931018 19940712 19940923

AΒ Water sol. hybrid phthalocyanine derivs.

having '(1) at least one donor subunit with a desired excitation peak and (2) at least one acceptor subunit with a desired emission peak, wherein the derivs. are capable of intramol. energy transfer from the donor subunit to the acceptor subunit, are synthesized. Such derivs. also may contain an electron transfer subunit. Axial ligands may be covalently bound to the metals contained in the water sol. hybrid phthalocyanine derivs. Ligands, ligand analogs, polypeptides, proteins, and nucleic acids can be linked to the axial ligands of the

dyes

to form dye conjugates useful in immunoassays and nucleic acid assays.

ANSWER 4 OF 9 CAPLUS COPYRIGHT 2000 ACS ACCESSION NUMBER: 1996:228986 CAPLUS

DOCUMENT NUMBER:

124:337353

TITLE:

Monomeric phthalocyanine reagents

INVENTOR(S):

Schindele, Deborah C.; Pepich, Barry V.; Renzoni, George E.; Fearon, Karen L.; Andersen, Niels H.;

Stanton, Thomas H.

PATENT ASSIGNEE(S):

British Technology Group Usa Inc., USA

SOURCE:

U.S., 31 pp. Cont.-in-part of U.S. Ser. No. 241,608.

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5494793 US 4803170 US 5135717 US 5346670 PRIORITY APPLN. INFO	A A A A	19960227 19890207 19920804 19940913	US 1989-366971 US 1986-946475 US 1989-398433 US 1992-895601 US 1986-941619 US 1986-946475 US 1987-61937 US 1988-241608 US 1989-309453 US 1985-732445 US 1987-3226 US 1989-366971 US 1989-398433	19890614 19861224 19890829 19920608 19861215 19861224 19870612 19880908 19890210 19850509 19871112 19890614 19890829

OTHER SOURCE(S): MARPAT 124:337353

Fluorescent and/or chromogenic reagents are disclosed in which a phthalocyanine deriv. is monomerically conjugated with an antigen, antibody, oligonucleotide, or nucleic acid. Methods are presented in which >90% of the phthalocyanine dyes are monomeric when conjugated. This greatly enhances their performance as detectable markers

in immunoassays, nucleic acid probe assays, immunoblotting, hybridization assays, microscopy, imaging, flow cytometry, DNA sequencing, and photodynamic therapy. For use as fluorophores, the free base phthalocyanine may or may not be metalated. Metals for fluorescent phthalocyanine include aluminum, silicon, phosphorus, gallium, germanium, cadmium, scandium, magnesium, tin, and zinc. For use as chromogens, the phthalocyanine may or may not be metalated. For use in aq. soln., the phthalocyanine macrocycle should be derivatized with water-solubilizing substituents such as sulfonic acid, phosphate, phosphonate, hydroxy, phenoxy, amino, ammonium, or pyridinium groups. To promote disaggregation, metalation with an atom of .++. valence or higher is recommended so that the monomer will take on an axial ligand in aq. soln. For use in enzymic immunoassays and enzymically enhanced nucleic acid probe assays, the monomeric phthalocyanine deriv. is conjugated via an enzyme-cleavable linkage with the antigen, antibody, oligonucleotide, or nucleic acid. Reversibly quenched embodiments are also provided in which a cleavable linkage joins a fluorescent phthalocyanine monomer with another phthalocyanine, a

ANSWER 3 OF 9 CAPLUS COPYRIGHT 2000 ACS

ACCESSION NUMBER: 1996:761698 CAPLUS

DOCUMENT NUMBER: 126:33023

TITLE: Hybrid phthalocyanine derivatives and their uses INVENTOR(S):

Buechler, Kenneth F.; Noar, Joseph B.; Tadesse, Lema PATENT ASSIGNEE(S):

Biosite Diagnostics Incorporated, USA SOURCE:

PCT Int. Appl., 190 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PA:	rent :	NO.		KI	ND	DATE			A	PPLI	CATI	ON N	٥.	DATE			
WO	9629 W:	AL, ES, LU,	AM, FI, LV,	GB,	AU, GE,	AZ, HU,	BB, IS,	BG, JP,	BR, KE,	BY, KG,	CA, KP,	CH, KR,	CN, KZ,	19960 CZ, LK, RO,	DE,	DK,	T.T.
CA	RW:	ΙE,	LS,	MW, LU,	MC,	SZ, NL, 1996	PT,	SE,	BF,	ΒJ,	CF,	CG,	CI,	FI, CM,	GA,	GB, GN,	GR, ML
AU EP	96533 82048	188 39 AT,	CH,	A:	l ES,	1996:	1008 0128 GB,	IT,	AU El	U 19: P 19: NL	96-5: 96-90	3188 09809	ō	19960 19960 19960 19960)322)322		
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